#### SORENSEN ENVIRONMENTAL, INC.

Water Quality and Waste Management Engineering

1901 Bear Court Fort Collins, CO 80525 (970) 493-6698 FAX (970) 493-0216

May 5, 2000

Mr. Ed Southwick Nebraska Department of Environmental Quality Suite 400, The Atrium 1200 N Street P.O. Box 98922 Lincoln, NE 68509-8922

Subject:

**Lockwood Corporation** 

Compliance Monitoring Report, Fall 1999

RCRA Part B Post-Closure Permit NDEO/EPA ID # NED044101442

#### Dear Mr Southwick:

On behalf of Lockwood Corporation, Sorensen Environmental, Inc. (SEI) is pleased to submit three (3) copies of the referenced Compliance Monitoring Report. This report was prepared and is submitted in accordance with requirements of the Part B Post Closure Permit Application of August 10, 1994 and the RCRA Post Closure Permit issued by the Nebraska Department of Environmental Quality (NDEQ) on December 16, 1994. As required, one (1) copy of the referenced report is being sent to U.S. EPA, Region VII in Kansas City, KS.

SEI conducted groundwater sampling of compliance monitoring wells near the Lockwood closed waste acid impoundment on March 29, 2000. The enclosed report summarizes findings.

If you have any comments or need additional information, please contact me at (970) 493-6698.

Sincerely

Paul C. Sorensen, P.E.

President

Enclosure

cc:

James Mitchell

Ms. JoAnn M. Heiman, U.S. EPA - Region VII

R00186662 RCRA RECORDS CENTER

# SORENSEN ENVIRONMENTAL, INC. Water Quality and Waste Management Engineering

# POST-CLOSURE CARE COMPLIANCE MONITORING REPORT

NED 044101442

#### LOCKWOOD CORPORATION

**Highway 92 East** 

Gering, NE

May 5, 2000

#### LOCKWOOD CORPORATION

Highway 92 East Gering, NE

### POST-CLOSURE CARE COMPLIANCE MONITORING REPORT

**NDEQ/EPA ID # NED044101442** 

#### **SUBMITTED TO:**

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

#### PREPARED BY:

Sorensen Environmental, Inc. 1901 Bear Court Fort Collins, CO 80525

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#### 1.0 INTRODUCTION

As prescribed in the RCRA Part B Post Closure Permit Application of August 10, 1994 and in the Post-Closure Permit (NDEQ/EPA I.D. #: NED044101442) issued by the Nebraska Department of Environmental Quality (NDEQ) on December 16, 1994, Sorensen Environmental, Inc. (SEI) conducted sampling of compliance monitoring wells near the closed waste acid impoundment on the Lockwood facility in Gering, Nebraska on March 29, 2000. On behalf of Mr. James J. Stumpf, Chapter 7 Trustee for Lockwood Corporation, SEI is pleased to submit this summary report of compliance monitoring procedures and analytical data.

#### 2.0 SAMPLING PROCEDURES

Compliance monitoring was performed in accordance with procedures outlined in Section 3.0 of the RCRA Part B Post Closure Permit Application, Sampling and Analysis Plan. As required, initial (pre-sampling) groundwater elevation measurements were made, as well as a determination of total well depth. Post-sampling groundwater elevations were also measured with the use of an electronic water level indicator. In response to the NDEQ Notice of Violation (NOV) of August 8, 1994, well recovery time after purging and sampling was recorded to the nearest half minute with the continuous use of the electronic water level indicator. Corresponding data are provided in Section 3.0.

Groundwater samples were taken from the following compliance monitor wells, in the order presented: MW-8 (background), MW-6, MW-3, MW-7, MW-1, and MW-4. This sampling sequence goes from up- to down-gradient of the closed waste acid impoundment. Field measurements were recorded for pH, specific conductance, and temperature. Each monitor well was purged in excess of three times the casing volume and until consecutive readings of pH, specific conductance, and temperature varied by less than 5 %.

Groundwater samples were collected from each well and submitted to Technology Laboratory, Inc. in Fort Collins, Colorado for analysis of the following parameters:

- Volatile Organic Compounds;
- Total Cadmium;
- Total Lead; and
- Total Silver.

In accordance with NDEQ requirements, a duplicate sample was collected form MW-4 and submitted to the laboratory for metals analysis, a trip blank sample was submitted to the laboratory for metals analysis; and a duplicate sample from MW-1 was submitted for laboratory pH and specific conductivity analysis to confirm field measurements.

#### 3.0 COMPLIANCE MONITORING RESULTS

Table 1 provides pertinent monitor well information, including: top of casing elevation; total well depth (as measured during this sampling event and as previously measured on October 14, 1994 for comparison); depth to groundwater; groundwater surface elevation; casing volume; and purge volumes prior to sampling. Top of casing elevations are as surveyed by Schaff & Associates, Inc. on October 14, 1994, and are Mean Sea Level elevations, minus 3,800 feet. These data are listed in Table 1 and also presented on Figure 1, along with the resulting groundwater potentiometric surface map as measured on March 29, 2000 and the inferred groundwater gradient and flow direction. Consistent with previous compliance monitoring findings, groundwater flow direction is to the northeast.

Groundwater elevations appear to be consistently higher in the fall than in the spring months, and measured groundwater elevations during this sampling event were typical of fall levels. Table 2 provides an account of recorded groundwater elevations measured during compliance monitoring events from October 1994 through March 2000, and Figure 2 provides a graphical display of the seasonal fluctuation in groundwater surface elevation.

The Technology Laboratory, Inc. analytical report and Chain-of-Custody documentation are presented in Appendix A. Laboratory analytical results are summarized in Table 3. As shown, with the exception of tetrachloroethene (PCE) in the up-gradient well MW-6, analytical results for volatile organic compounds (VOCs), total cadmium, total lead, and total silver indicate that none of these compounds or elements is found in concentrations greater than the analytical detection limit in any of the other wells.

Compliance monitor well MW-6 is located up-gradient of the closed waste acid impoundment, but down-gradient of well MW-8 and the railroad tracks that run adjacent to the closed waste impoundment on the west side. PCE was reported in MW-6 in the concentration of  $1.1 \,\mu\text{g/L}$ , well below the groundwater protection standard of  $5 \,\mu\text{g/L}$ . Because MW-6 is located up-gradient of the closed waste impoundment, it is unlikely that the closed waste impoundment on the Lockwood property is the source of the detected PCE. SEI initially questioned the laboratory regarding analytical procedures or quality control requirements. Technology Laboratory was also surprised by this result, and conducted additional tests that confirmed the accuracy of the reported  $1.1 \,\mu\text{g/L}$  concentration.

It was reported that the railroad frequently conducts maintenance and repair work on engines and cars on the siding track that is adjacent to the west (up-gradient) side of the closed waste acid impoundment (telephone conversation, Mr. Joe Shon, Agromac International, April 17, 2000). It is possible that railroad maintenance activities could be responsible for the PCE detected there. However, no conclusive evidence of a solvent release or spill was observed during sampling activities.

Review of the laboratory report (Appendix A) indicates that all other parameters are reported at concentrations less than the detection limit for all other monitor wells. The non-detect analytical results are consistent with those of previous monitoring results as reported in the Part B Post-Closure Permit Application submitted (with revisions) by Lockwood on August 10, 1994 and Post-Closure Care Compliance Monitoring Reports from November 1994 through May 1997. Trichloroethene (TCE) was measured at 1.2 micrograms per Liter ( $\mu$ g/L) in MW-4 in the sample collected on October 16, 1997 and tetrachloroethene (PCE) was measured at 1.1  $\mu$ g/L in MW-6 in the sample collected on April 2, 1998. While these results were above the non-detectable level, they remain well below the designated Groundwater Protection Standard of 5.0  $\mu$ g/L. Analytical results for all subsequent sampling events were once again reported at non-detect for all parameters analyzed.

In the NDEQ Notice of Violation (NOV) letter of August 8, 1994, NDEQ requested that Lockwood perform monthly well head inspections, annual well bore scrape sampling, and annual review of well yield, recovery time, and fill depth. Lockwood understands that these requests were made to demonstrate the proper functioning of the monitor wells. In response to that NDEQ comment, it was agreed that groundwater recovery times would be recorded to the nearest 30 seconds with the continuous use of an electronic water level indicator. Moreover, Lockwood agreed to perform the requested well services "in the event that both of the following conditions are encountered in any given compliance monitoring well:

- Failure to produce visually clear sample water after purging of five (5) casing volumes; and
- Post-purging water surface depression below the initial water surface level in excess of 0.25 feet after a recovery period of not greater than 15 minutes (Lockwood response to NDEQ NOV, August 30, 1994)."

NDEQ agreed that very rapid groundwater recovery rates have been demonstrated during compliance monitoring events. It was therefore further agreed that recording of groundwater recovery in 30 second increments was necessary only once a year. Accordingly, SEI measured groundwater recovery rates in all compliance monitoring wells during this sampling event. Table 4 presents groundwater recovery data. As demonstrated by the purge volumes necessary to produce visually clear water prior to sampling (Table 1) and by the recorded post-sampling depths to groundwater given in Table 4, neither of the above conditions was encountered, indicating acceptable conditions within each of the monitor wells. Water level measurements show consistently minimal changes in post-sampling from pre-sampling water levels, and the recorded differences are within the margin of error for the electronic water level indicator used.

#### 4.0 STATISTICAL ANALYSIS

Analytical values for the parameters sampled from each compliance monitor well are reported as less than the detection limit for all parameters from all compliance monitoring wells except VOC in MW-6 (Table 2). PCE was measured at  $1.1 \,\mu\text{g/L}$  in MW-6. All other well values are reported at less than the detection limit. Accordingly, with the exception of VOC in MW-6, these data have identical mean values (all less than detection limit) and variance values of zero. The occurrence of one non-zero value (PCE in MW-6) with all other values being zero does not lend itself to meaningful statistical evaluation. The critical assumption that the variance be equal in all wells for the Analysis of Variance test is violated (variance equal to zero in all wells except MW-6). Therefore, no statistical analysis (analysis of variance) is appropriate for these data.

#### 5.0 CONCLUSIONS

This report presents findings of the March 29, 2000 compliance monitoring event at the Lockwood closed waste acid impoundment in accordance with requirements of the Part B Permit Application of August 10, 1994 and the Part B Post Closure Permit (NED044101442) issued by the NDEQ on December 16, 1994. The data show that none of the constituents of concern was detected in concentrations greater than the groundwater protection standards in any of the compliance wells sampled; all parameters evaluated (except PCE in MW-6) are reported at concentrations less than detection limit.

Laboratory analytical results indicate that PCE was detected in MW-6 at the very low level of 1.1  $\mu$ g/L in the MW-6. This low level, while above the detection limit, remains well below the groundwater protection standard of  $5.0\mu$ g/L. This analytical result is not indicative of a new release from the waste acid impoundment, and does not indicate the presence of a continual source that could lead to PCE concentration exceeding the groundwater protection standard. On-going compliance monitoring at this closed waste acid impoundment has demonstrated the continued compliance with groundwater protection standards over a period of six years.

Table 1
Monitor Well and Groundwater Sampling Information

Monitor Well No.	Top of Casing Elevation <sup>1</sup> (ft-AMSL)	Total Well Depth Measured on 3/29/00 (ft below TOC²)	Total Well Depth Measured on 10/14/94 (ft below TOC²)	Depth to Groundwater Measured on 3/29/00 (ft below TOC²)	Groundwater Elevation <sup>1</sup> (ft-AMSL)	Well Casing Volume (gal)	Purge Volume prior to sampling (gal)
MW-8	81.47	29.40	29.59	10.39	71.08	12.36	40
MW-6	80.73	29.28	29.56	9.76	70.97	12.69	40
MW-3	81.00	28.35	28.55	10.24	70.76	11.77	40
MW-7	80.51	28.10	28.31	10.23	70.28	11.62	35
MW-1	80.14	24.60	24.82	9.70	70.44	9.69	30
MW-4	80.23	27.30	27.53	10.12	70.11	11.17	35

Adjusted Mean Seal Level Elevation: MSL - 3,800 ft
 TOC = Top of Casing

Table 2
Summary of Measured Water Surface Elevations
During Compliance Monitoring Period October 1994 through March 2000

Monitor		Measured Groundwater Surface Elevation (AMSL) 1										
Well - No.	10/14/94	3/24/95	10/27/95	4/19/96	10/24/96	3/26/97	10/16/97	4/2/98	9/24/98	3/31/99	10/21/99	3/29/00
MW-8	72.33	71.01	71.88	70.59	72.39	70.83	72.87	71.21	73.43	71.29	72.67	71.08
MW-6	72.18	70.83	71.76	70.47	72.24	70.74	72.81	71.23	73.40	71.21	72.57	70.97
MW-3	71.94	70.68	71.51	70.28	72.09	70.52	72.38	70.90	73.19	70.97	72.53	70.76
MW-7	71.63	70.22	71.18	69.81	71.65	70.09	72.18	70.35	72.76	70.46	71.93	70.28
MW-1	71.67	70.32	71.20	69.92	71.76	70.19	72.16	70.49	72.75	70.62	72.09	70.44
MW-4	71.37	70.03	70.96	69.59	71.45	69.88	71.96	70.21	72.49	70.27	71.81	70.11

<sup>&</sup>lt;sup>1</sup> Adjusted Mean Seal Level Elevation = Mean Seal Level (MSL) - 3,800 ft

Table 3 **Summary of Compliance Monitoring Analytical Results** 

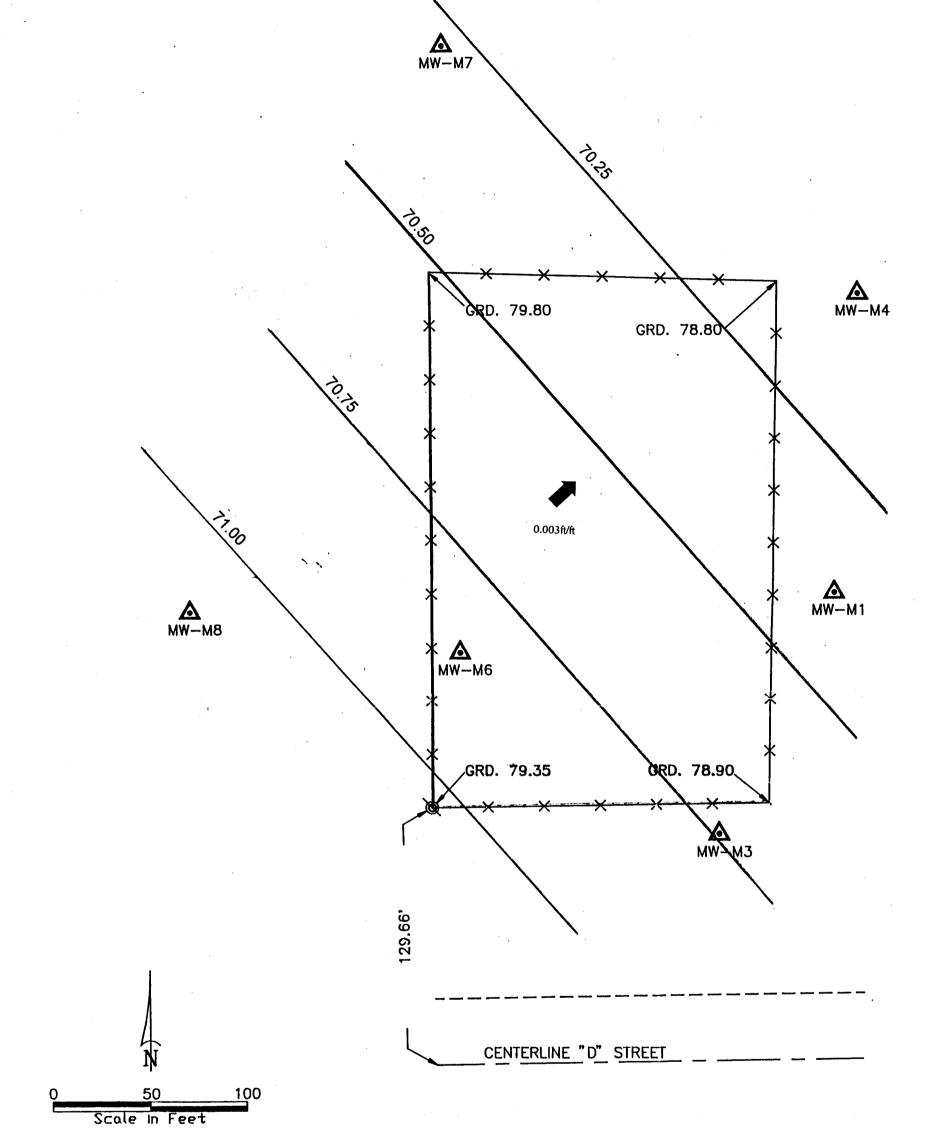
Monitor Well No.	Date Sampled	pH¹	Specific Conductance <sup>1</sup> (umhos/cm)	Temperature <sup>1</sup> (°F)	VOCs² (μg/L)	Total Cadmium (mg/L)	Total Lead (mg/L)	Total Silver (mg/L)
	Ground	dwater Prot	ection Standard		TCE: 5.0 PCE: 5.0	0.005	0.015	0.05
MW-8	3/29/00	7.28	1386	49.8	< 0.5	< 0.005	< 0.003	< 0.01
MW-6	3/29/00	7.40	1362	49.8	PCE 1.1	< 0.005	< 0.003	< 0.01
MW-3	3/29/00	7.34	1317	49.9	< 0.5	< 0.005	< 0.003	< 0.01
MW-7	3/29/00	7.54	1347	49.9	< 0.5	< 0.005	< 0.003	< 0.01
MW-1	3/29/00	7.01	2230	47.3	< 0.5	< 0.005	< 0.003	< 0.01
MW-4	3/29/00	6.87	3600	49.9	< 0.5	< 0.005	< 0.003	< 0.01
Trip Blank	3/29/00	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	< 0.005	< 0.003	< 0.01
MW-1-d	3/29/00	$6.93^{4}$	430 <sup>4</sup>	$NA^3$	$NA^3$	$NA^3$	$NA^3$	$NA^3$
MW-4-d	3/29/00	$NA^3$	$NA^3$	NA <sup>3</sup>	$NA^3$	< 0.005	< 0.003	< 0.01

Field Measurements
 Volatile Organic Compounds
 Not Analyzed
 Laboratory Analysis

Table 4 Groundwater Recovery Data<sup>1</sup>

Monitor Well No.	Pre-Sample Water Depth (ft below TOC)	Elapsed Time <sup>2</sup> (sec)	Post-Sample Water Depth (ft below TOC)
MW-8	10.39	210	10.44
		240	10.43
		270	10.43
MW-6	9.76	150	9.88
		180	9.86
		210	9.85
		240	9.85
		270	9.85
MW-3	10.24	150	10.32
		180	10.32
		210	10.32
		240	10.31
		270	10.31
MW-7	10.23	210	10.24
		240	10.23
MW-1	9.70	150	9.71
		180	9.70
MW-4	10.12	150	10.15
		180	10.15
		210	10.14
		240	10.14

Data as measured on March 29, 2000
 Elapsed Time from beginning of sampling



KEY

**MONITORING WELL** 

**©** EXISTING SPIKE

			4		
	WELL#	GROUND ELEVATION (FT-AMSL) <sup>1</sup>	TOP OF CASING ELEVATION (FT-AMSL)	DEPTH TO GROUNDWATER (FT ABOVE TOP OF CASING)	GROUNDWATER ELEVATION (FT-AMSL)
ſ	MW-M1	78.40	80.14	9.70	70.44
	MW-M3	79.30	81.00	10.24	70.76
	MW-M4	78.72	80.23	10.12	70.11
l	MW-M6	79.00	80.73	9.76	70.97
	MW-M7	78.90	80.51	10.23	70.28
L	MW-M8	79.80	81.47	10.39	<i>7</i> 1.08

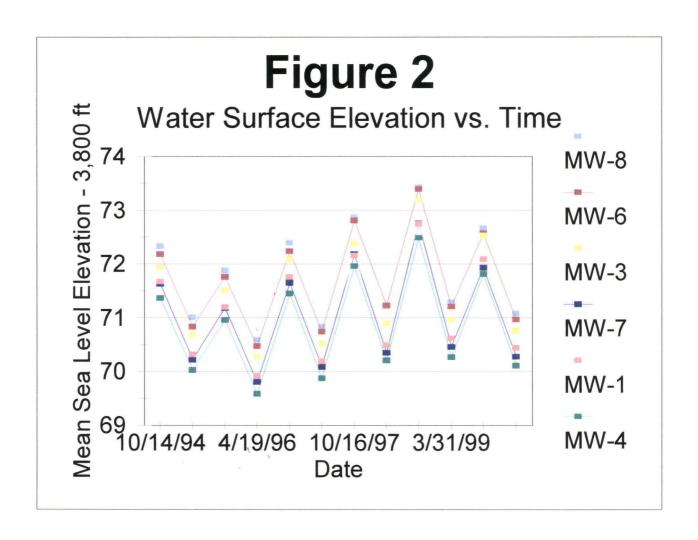
Adjusted Mean Sea Level Elevation: MSL - 3,800 feet

## FIGURE 1 GROUNDWATER POTENTIOMETRIC SURFACE AS MEASURED ON MARCH 29, 2000 CLOSED WASTE ACID EVAPORATION POND

M. C. SCHAFF & ASSUCIATES, INC. 818 SOUTH BELTLINE HWY. EAST SCOTTSBLUFF, NEBRASKA

Projecti MONITORING WELL LOCATIONS AND ELEVATIONS LOCKWOOD CORPORATION GERING, NEBRASKA 69341

Date: OCTOBER 20, 1994	Drni J.H.
Job No. #	Chkı_K.B.
Scale: 1" = 50' Revi	Bvi .



#### APPENDIX A

TECHNOLOGY LABORATORY, INC.

WATER ANALYSIS REPORT

**AND** 

CHAIN-OF-CUSTODY DOCUMENTATION

CENTRE OFFICE PARK 1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### **VOLATILE ORGANICS** WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL

1901 Bear Court

Fort Collins, Colorado 80525

Sampled:

03/29/00

Received:

03/31/00

Analyzed:

04/07/00

Sample I Laborato			·	Project No.: H008-01-002 Method: EPA-8260	2/S00
CAS		Concentration	CAS		Concentration
<u>Number</u>	Compound Analyzed	(µg/L)	Number	Compound Analyzed	(µg/L)
75-01-4	Vinyl chloride	<0.5	106-93-4	1,2-Dibromoethane	<0.5
74-87-3	Chloromethane	<0.5	124-48-1	Dibromochloromethane	<0.5
74-83-9	Bromomethane	<0.5	108-90-7	Chlorobenzene	<0.5
75-00 <b>-</b> 3	Chloroethane	<0.5	630-20-6	1,1,1,2-Tetrachloroethane	<0.5
75-69-4	Trichlorofluoromethane	<0.5	100-41-4	Ethylbenzene	<0.5
75-35-4	1,1-Dichloroethene	<0.5		Total Xylenes	<0.5
156-60-5	trans-1,2-Dichloroethene	<0.5	100-42-5	Styrene	<0.5
156-59-2	cis-1,2-Dichloroethene	<0.5	75 <b>-</b> 25-2	Bromoform	<0.5
75-09-2	Methylene chloride	<0.5	79-34-5	1,1,2,2-Tetrachloroethane	<0.5
75-34-3	1,1-Dichloroethane	<0.5	98-82-8	Isopropylbenzene	<0.5
74-97-5	Bromochloromethane	<0.5	108-86-1	Bromobenzene	<0.5
67-66-3	Chloroform	<0.5	95-49-8	2-Chlorotoluene	<0.5
71-55-6	1,1,1-Trichloroethane	<0.5	106-43-4	4-Chlorotoluene	<0.5
56-23-5	Carbon tetrachloride	<0.5	108-67-8	1,3,5-Trimethylbenzene	<0.5
71-43-2	Benzene	<0.5	95-63-6	1,2,4-Trimethylbenzene	<0.5
107-06-2	1,2-Dichloroethane	<0.5	98-06-6	tert-Butylbenzene	<0.5
79-01-6	Trichloroethene	<0.5	135-98-8	sec-Butylbenzene	<0.5
78-87-5	1,2-Dichloropropane	<0.5	106-46-7	1,4-Dichlorobenzene	<0.5
<b>75-27-4</b>	Bromodichloromethane	<0.5	541-73-1	1,3-Dichlorobenzene	<0.5
74-95-3	Dibromomethane	<0.5	99-87-6	4-Isopropyltoluene	<0.5
108-88-3	Toluene	<0.5	104-51-8	n-Butylbenzene	<0.5
79-00-5	1,1,2-Trichloroethane	<0.5	87-61-6	1,2,3-Trichlorobenzene	<0.5
142-28-9	1,3-Dichloropropane	<0.5	120-82-1	1,2,4-Trichlorobenzene	<0.5
594-20-7	2,2-Dichloropropane	<0.5	87-68-3	Hexachlorobutadiene	<0.5
563-58-6	1,1-Dichloropropene	<0.5	91-20-3	Naphthalene	<0.5
542-75-6	cis-1,3-Dichloropropene	<0.5	95-50-1	1,2-Dichlorobenzene	<0.5
542-75-6	trans-1,3-Dichloropropene	<0.5	103-65-1	N-Propylbenzene	<0.5
127-18-4	Tetrachloroethene	<0.5			

#### QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	103	86-118
Toluene-d <sub>8</sub>	95	88-110
4-Bromofluorobenzene	99	86-115

TECHNOLOGY LABORATORY, INC.

CENTRE OFFICE PARK 1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### **VOLATILE ORGANICS** WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL

1901 Bear Court

Sample ID:

Laboratory ID:

Fort Collins, Colorado 80525

M6

404-2

Sampled:

03/29/00

Received:

03/31/00

Analyzed:

04/07/00

Project No.:

H008-01-002/S00

Method:

EPA-8260

CAS <u>Number</u> .	Compound Analyzed	Concentration (µg/L)	CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)
75-01-4	Vinyl chloride	<0.5	106-93-4	1,2-Dibromoethane	<0.5
74-87-3	Chloromethane	<0.5	124-48-1	Dibromochloromethane	<0.5
74-83-9	Bromomethane	<0.5	108-90-7	Chlorobenzene	<0.5
75-00-3	Chloroethane	<0.5	630-20-6	1,1,1,2-Tetrachloroethane	<0.5
75-69-4	Trichlorofluoromethane	<0.5	100-41-4	Ethylbenzene	<0.5
75-35-4	1,1-Dichloroethene	<0.5		Total Xylenes	<0.5
156-60-5	trans-1,2-Dichloroethene	<0.5	100-42-5	Styrene	<0.5
156-59-2	cis-1,2-Dichloroethene	<0.5	75-25-2	Bromoform	<0.5
75-09-2	Methylene chloride	<0.5	79-34-5	1,1,2,2-Tetrachloroethane	<0.5
75-34-3	1,1-Dichloroethane	<0.5	98-82-8	Isopropylbenzene	<0.5
74-97-5	Bromochloromethane	<0.5	108-86-1	Bromobenzene	<0.5
67-66-3	Chloroform	<0.5	95-49-8	2-Chlorotoluene	<0.5
71-55-6	1,1,1-Trichloroethane	<0.5	106-43-4	4-Chlorotoluene	<0.5
56-23-5	Carbon tetrachloride	<0.5	108-67-8	1,3,5-Trimethylbenzene	<0.5
71-43-2	Benzene	<0.5	95-63-6	1,2,4-Trimethylbenzene	<0.5
107-06-2	1,2-Dichloroethane	<0.5	98-06-6	tert-Butylbenzene	<0.5
79-01-6	Trichloroethene	<0.5	135-98-8	sec-Butylbenzene	<0.5
78-87-5	1,2-Dichloropropane	<0.5	106-46-7	1,4-Dichlorobenzene	<0.5
75-27 <del>-4</del>	Bromodichloromethane	<0.5	541-73-1	1,3-Dichlorobenzene	<0.5
74-95-3	Dibromomethane	<0.5	99-87-6	4-Isopropyltoluene	<0.5
108-88-3	Toluene	<0.5	104-51-8	n-Butylbenzene	<0.5
79-00-5	1,1,2-Trichloroethane	<0.5	87-61-6	1,2,3-Trichlorobenzene	<0.5
142-28-9	1,3-Dichloropropane	<0.5	120-82-1	1,2,4-Trichlorobenzene	<0.5
594-20-7	2,2-Dichloropropane	<0.5	87-68-3	Hexachlorobutadiene	<0.5
563-58-6	1,1-Dichloropropene	<0.5	91-20-3	Naphthalene	<0.5
542-75 <b>-</b> 6	cis-1,3-Dichloropropene	<0.5	95-50-1	1,2-Dichlorobenzene	<0.5
542-75-6	trans-1,3-Dichloropropene	<0.5	103-65-1	N-Propylbenzene	<0.5
127-18-4	Tetrachloroethene	1.1			

#### QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	103	86-118
Toluene-d <sub>8</sub>	96	88-110
4-Bromofluorobenzene	100	86-115

CENTRE OFFICE PARK 1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### **VOLATILE ORGANICS** WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL

1901 Bear Court

Sample ID:

Fort Collins, Colorado 80525

М3

Sampled: Received: 03/29/00 03/31/00

Analyzed:

04/07/00

Project No.:

H008-01-002/S00

Laborato	ry ID: 404-3			Method: EPA-8260	-, 500
CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)	CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)
75-01 <del>-4</del>	Vinyl chloride	<0.5	106-93-4	1,2-Dibromoethane	<0.5
74-87-3	Chloromethane	<0.5	124-48-1	Dibromochloromethane	<0.5
74-83-9	Bromomethane	<0.5	108-90-7	Chlorobenzene	<0.5
75-00 <b>-</b> 3	Chloroethane	<0.5	630-20-6	1,1,1,2-Tetrachloroethane	<0.5
75-69 <del>-4</del>	Trichlorofluoromethane	<0.5	100-41-4	Ethylbenzene	<0.5
75-35 <del>-4</del>	1,1-Dichloroethene	<0.5		Total Xylenes	<0.5
156-60-5	trans-1,2-Dichloroethene	<0.5	100-42-5	Styrene	<0.5
156-59-2	cis-1,2-Dichloroethene	<0.5	75-25-2	Bromoform	<0.5
75-09-2	Methylene chloride	<0.5	79-34-5	1,1,2,2-Tetrachloroethane	<0.5
75-34-3	1,1-Dichloroethane	<0.5	98-82-8	Isopropylbenzene	<0.5
74-97-5	Bromochloromethane	<0.5	108-86-1	Bromobenzene	<0.5
67-66-3	Chloroform	<0.5	95-49-8	2-Chlorotoluene	<0.5
71-55-6	1,1,1-Trichloroethane	<0.5	106-43-4	4-Chlorotoluene	<0.5
56-23-5	Carbon tetrachloride	<0.5	108-67-8	1,3,5-Trimethylbenzene	<0.5
71-43-2	Benzene	<0.5	95-63-6	1,2,4-Trimethylbenzene	<0.5
107-06-2	1,2-Dichloroethane	<0.5	98-06-6	tert-Butylbenzene	<0.5
79-01-6	Trichloroethene	<0.5	135-98-8	sec-Butylbenzene	<0.5
78 <b>-</b> 87-5	1,2-Dichloropropane	<0.5	106-46-7	1,4-Dichlorobenzene	<0.5
75-27 <del>-4</del>	Bromodichloromethane	<0.5	541-73-1	1,3-Dichlorobenzene	<0.5
74-95-3	Dibromomethane	<0.5	99-87-6	4-Isopropyltoluene	<0.5
108-88-3	Toluene	<0.5	104-51-8	n-Butylbenzene	<0.5
79-00-5	1,1,2-Trichloroethane	<0.5	87-61-6	1,2,3-Trichlorobenzene	<0.5
142-28-9	1,3-Dichloropropane	<0.5	120-82-1	1,2,4-Trichlorobenzene	<0.5
594-20-7	2,2-Dichloropropane	<0.5	87-68-3	Hexachlorobutadiene	<0.5
563-58-6	1,1-Dichloropropene	<0.5	91-20-3	Naphthalene	<0.5
542-75-6	cis-1,3-Dichloropropene	<0.5	95-50-1	1,2-Dichlorobenzene	<0.5
542-75-6	trans-1,3-Dichloropropene	<0.5	103-65-1	N-Propylbenzene	<0.5

#### **QA/QC SURROGATE RECOVERIES**

Compound	% Recovery	% Rec. Limits						
Dibromofluoromethane	103	86-118						
Toluene-d <sub>8</sub>	96	88-110						
4-Bromofluorobenzene	101	86-115						

< 0.5

TECHNOLOGY LABORATORY, INC.

Tetrachloroethene

127-18-4

CENTRE OFFICE PARK 1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### VOLATILE ORGANICS WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL

M7

404-4

1901 Bear Court

Sample ID:

Laboratory ID:

Fort Collins, Colorado 80525

Sampled:

03/29/00

Received: Analyzed:

03/31/00

•

04/07/00

Project No.:

H008-01-002/S00

Method:

EPA-8260

Laborator	19 1D. 404"4			Metriod. LPA-0200	
CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)	CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)
75-01-4	Vinyl chloride	<0.5	106-93-4	1,2-Dibromoethane	<0.5
74-87-3	Chloromethane	<0.5	124-48-1	Dibromochloromethane	<0.5
74-83-9	Bromomethane	<0.5	108-90-7	Chlorobenzene	<0.5
75-00-3	Chloroethane	<0.5	630-20-6	1,1,1,2-Tetrachloroethane	<0.5
75-69-4	Trichlorofluoromethane	<0.5	100-41-4	Ethylbenzene	<0.5
75-35 <del>-4</del>	1,1-Dichloroethene	<0.5		Total Xylenes	<0.5
156-60-5	trans-1,2-Dichloroethene	<0.5	100-42-5	Styrene	<0.5
156-59-2	cis-1,2-Dichloroethene	<0.5	75-25-2	Bromoform	<0.5
75-09-2	Methylene chloride	<0.5	79-34-5	1,1,2,2-Tetrachloroethane	<0.5
75-34-3	1,1-Dichloroethane	<0.5	98-82-8	Isopropylbenzene	<0.5
74-97-5	Bromochloromethane	<0.5	108-86-1	Bromobenzene	<0.5
67-66-3	Chloroform	<0.5	95-49-8	2-Chlorotoluene	<0.5
71-55-6	1,1,1-Trichloroethane	<0.5	106-43-4	4-Chlorotoluene	<0.5
56-23-5	Carbon tetrachloride	<0.5	108-67-8	1,3,5-Trimethylbenzene	<0.5
71- <del>4</del> 3-2	Benzene	<0.5	95-63-6	1,2,4-Trimethylbenzene	<0.5
107-06-2	1,2-Dichloroethane	<0.5	98-06-6	tert-Butylbenzene	<0.5
79-01-6	Trichloroethene	<0.5	135-98-8	sec-Butylbenzene	<0.5
78-87-5	1,2-Dichloropropane	<0.5	106-46-7	1,4-Dichlorobenzene	<0.5
75-27-4	Bromodichloromethane	<0.5	541-73-1	1,3-Dichlorobenzene	<0.5
74-95-3	Dibromomethane	<0.5	99-87-6	4-Isopropyltoluene	<0.5
108-88-3	Toluene	<0.5	104-51-8	n-Butylbenzene	<0.5
79-00-5	1,1,2-Trichloroethane	<0.5	87-61-6	1,2,3-Trichlorobenzene	<0.5
142-28-9	1,3-Dichloropropane	<0.5	120-82-1	1,2,4-Trichlorobenzene	<0.5
594-20-7	2,2-Dichloropropane	<0.5	87-68-3	Hexachlorobutadiene	<0.5
563-58-6	1,1-Dichloropropene	<0.5	91-20-3	Naphthalene	<0.5
542-75-6	cis-1,3-Dichloropropene	<0.5	95-50-1	1,2-Dichlorobenzene	<0.5
542-75-6	trans-1,3-Dichloropropene	<0.5	103-65-1	N-Propylbenzene	<0.5
127-18-4	Tetrachloroethene	<0.5			

#### QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits						
Dibromofluoromethane	104	86-118						
Toluene-d <sub>8</sub>	96	88-110						
4-Bromofluorobenzene	99	86-115						

CENTRE OFFICE PARK 1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### **VOLATILE ORGANICS** WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL

1901 Bear Court

Sample ID:

Laboratory ID:

Fort Collins, Colorado 80525

M1

404-5

Sampled: Received:

03/29/00 03/31/00

Analyzed:

04/07/00

Project No.:

H008-01-002/S00

Method:

EPA-8260

Laborato	., 15. 10.5			11001001	
CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)	CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)
75-01-4	Vinyl chloride	<0.5	106-93-4	1,2-Dibromoethane	<0.5
74-87-3	Chloromethane	<0.5	124-48-1	Dibromochloromethane	<0.5
74-83-9	Bromomethane	<0.5	108-90-7	Chlorobenzene	<0.5
75-00-3	Chloroethane	<0.5	630-20-6	1,1,1,2-Tetrachloroethane	<0.5
75 <del>-</del> 69- <del>4</del>	Trichlorofluoromethane	<0.5	100-41-4	Ethylbenzene	<0.5
75 <b>-</b> 35 <del>-4</del>	1,1-Dichloroethene	<0.5		Total Xylenes	<0.5
156-60-5	trans-1,2-Dichloroethene	<0.5	100-42-5	Styrene	<0.5
156-59-2	cis-1,2-Dichloroethene	<0.5	75-25-2	Bromoform	<0.5
75-09 <b>-</b> 2	Methylene chloride	<0.5	79-34-5	1,1,2,2-Tetrachloroethane	<0.5
75-34-3	1,1-Dichloroethane	<0.5	98-82-8	Isopropylbenzene	<0.5
7 <del>4</del> -97-5	Bromochloromethane	<0.5	108-86-1	Bromobenzene	<0.5
67 <b>-</b> 66-3	Chloroform	<0.5	95-49-8	2-Chlorotoluene	<0.5
71-55-6	1,1,1-Trichloroethane	<0.5	106-43-4	4-Chlorotoluene	<0.5
56-23-5	Carbon tetrachloride	<0.5	108-67-8	1,3,5-Trimethylbenzene	<0.5
71-43-2	Benzene	<0.5	95-63-6	1,2,4-Trimethylbenzene	<0.5
107-06-2	1,2-Dichloroethane	<0.5	98-06-6	tert-Butylbenzene	<0.5
79-01-6	Trichloroethene	<0.5	135-98-8	sec-Butylbenzene	<0.5
78-87-5	1,2-Dichloropropane	<0.5	106-46-7	1,4-Dichlorobenzene	<0.5
75-27 <del>-4</del>	Bromodichloromethane	<0.5	541-73-1	1,3-Dichlorobenzene	<0.5
74-95-3	Dibromomethane	<0.5	99-87-6	4-Isopropyltoluene	<0.5
108-88-3	Toluene	<0.5	104-51-8	n-Butylbenzene	<0.5
79-00-5	1,1,2-Trichloroethane	<0.5	87-61-6	1,2,3-Trichlorobenzene	<0.5
142-28-9	1,3-Dichloropropane	<0.5	120-82-1	1,2,4-Trichlorobenzene	<0.5
594-20-7	2,2-Dichloropropane	<0.5	87-68-3	Hexachlorobutadiene	<0.5
563-58-6	1,1-Dichloropropene	<0.5	91-20-3	Naphthalene	<0.5
542-75-6	cis-1,3-Dichloropropene	<0.5	95-50-1	1,2-Dichlorobenzene	<0.5
542-75-6	trans-1,3-Dichloropropene	<0.5	103-65-1	N-Propylbenzene	<0.5
127-18-4	Tetrachloroethene	<0.5			

#### QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits							
Dibromofluoromethane	103	86-118							
Toluene-d <sub>8</sub>	96	88-110							
4-Bromofluorobenzene	99	86-115							

CENTRE OFFICE PARK 1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### **VOLATILE ORGANICS** WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL

1901 Bear Court

Fort Collins, Colorado 80525

Sample ID:

Μ4

Laboratory ID:

404-7

Sampled:

03/29/00

Received:

03/31/00

Analyzed:

04/07/00

Project No.:

H008-01-002/S00

Method:

EPA-8260

CAS <u>Number</u>	, <u>Compound Analyzed</u>	Concentration (µg/L)	CAS <u>Number</u>	Compound Analyzed	Concentration (µg/L)
75-01-4	Vinyl chloride	<0.5	106-93-4	1,2-Dibromoethane	<0.5
74-87-3	Chloromethane	<0.5	124-48-1	Dibromochloromethane	<0.5
74-83-9	Bromomethane	<0.5	108-90-7	Chlorobenzene	<0.5
75-00-3	Chloroethane	<0.5	630-20-6	1,1,1,2-Tetrachloroethane	<0.5
75-69-4	Trichlorofluoromethane	<0.5	100-41-4	Ethylbenzene	<0.5
75-35-4	1,1-Dichloroethene	<0.5		Total Xylenes	<0.5
156-60-5	trans-1,2-Dichloroethene	<0.5	100-42-5	Styrene	<0.5
156-59-2	cis-1,2-Dichloroethene	<0.5	75-25-2	Bromoform	<0.5
75-09-2	Methylene chloride	<0.5	79-34-5	1,1,2,2-Tetrachloroethane	<0.5
75-34-3	1,1-Dichloroethane	<0.5	98-82-8	Isopropylbenzene	<0.5
74-97-5	Bromochloromethane	<0.5	108-86-1	Bromobenzene	<0.5
67-66-3	Chloroform	<0.5	95-49-8	2-Chlorotoluene	<0.5
71-55-6	1,1,1-Trichloroethane	<0.5	106-43-4	4-Chlorotoluene	<0.5
56-23-5	Carbon tetrachloride	<0.5	108-67-8	1,3,5-Trimethylbenzene	<0.5
71-43-2	Benzene	<0.5	95-63-6	1,2,4-Trimethylbenzene	<0.5
107-06-2	1,2-Dichloroethane	<0.5	98-06-6	tert-Butylbenzene	<0.5
79-01-6	Trichloroethene	<0.5	135-98-8	sec-Butylbenzene	<0.5
78-87 <b>-</b> 5	1,2-Dichloropropane	<0.5	106-46-7	1,4-Dichlorobenzene	<0.5
75 <b>-</b> 27 <del>-</del> 4	Bromodichloromethane	<0.5	541-73-1	1,3-Dichlorobenzene	<0.5
74-95-3	Dibromomethane	<0.5	99-87-6	4-Isopropyltoluene	<0.5
108-88-3	Toluene	<0.5	104-51-8	n-Butylbenzene	<0.5
79-00-5	1,1,2-Trichloroethane	<0.5	87-61-6	1,2,3-Trichlorobenzene	<0.5
142-28-9	1,3-Dichloropropane	<0.5	120-82-1	1,2,4-Trichlorobenzene	<0.5
594-20-7	2,2-Dichloropropane	<0.5	87-68-3	Hexachlorobutadiene	<0.5
563-58-6	1,1-Dichloropropene	<0.5	91-20-3	Naphthalene	<0.5
542-75-6	cis-1,3-Dichloropropene	<0.5	95-50-1	1,2-Dichlorobenzene	<0.5
542-75-6	trans-1,3-Dichloropropene	<0.5	103-65-1	N-Propylbenzene	<0.5
127-18 <del>-4</del>	Tetrachloroethene	<0.5			

#### QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	103	86-118
Toluene-d <sub>8</sub>	95	88-110
4-Bromofluorobenzene	100	86-115

#### CENTRE OFFICE PARK

1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### TRACE METALS WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL 1901 Bear Court Fort Collins, Colorado 80525 Date Received: Date Analyzed:

03/31/00 04/06/00

Project No.:

H008-01-002/S00

		Date	Total Cadmium	Total Silver	Total Lead
<u>Lab ID</u>	Sample ID	<u>Sampled</u>	mg/L	mg/L	mg/L
404-1	M8	03/29/00	< 0.005	<0.01	< 0.003
404-2	M9	03/29/00	< 0.005	< 0.01	< 0.003
404-3	M3	03/29/00	< 0.005	< 0.01	< 0.003
404-4	M7	03/29/00	< 0.005	< 0.01	< 0.003
404-5	M1	03/29/00	< 0.005	<0.01	< 0.003
404-7	M4	03/29/00	< 0.005	<0.01	< 0.003
404-8	M4-D	03/29/00	< 0.005	< 0.01	< 0.003
407-9	Trip Blank	03/29/00	< 0.005	< 0.01	< 0.003

Total Cadmium Method: Total Silver Method: EPA-7130 EPA-7760

Total Lead Method:

EPA-7421

CENTRE OFFICE PARK 1012 Centre Avenue Fort Collins, Colorado 80526 (970) 490-1414

#### WATER ANALYSIS REPORT

SORENSEN ENVIRONMENTAL

1901 Bear Court

Fort Collins, Colorado 80525

Sample ID:

M1-D

404-1

Sampled:

03/29/00

Received: Analyzed: 03/31/00 04/07/00

Project No.:

H008-01-002/S00

Compound Analyzed

Laboratory ID:

Concentration

Method

pН

**Specific Conductivity** 

6.93 Units

EPA-150.1

430 µmhos/cm @ 25° C EPA-120.1

## TECHNOLOGY LABORATORY, INC. 1012 CENTRE AVENUE

1012 CENTRE AVENUE FORT COLLINS, CO 80526 (970) 490-1414

## CHAIN-OF-CUSTODY REPORT

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